

Python: module `regrid.scrip`

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class ***BicubicRegridder***([ScripRegridder](#))

Bicubic regrid.

Methods defined here:

__call__(self, input, gradLat, gradLon, gradLatlon)

gradLat = df/di

gradLon = df/dj

gradLatlon = d(df) / (di) (dj)

__init__(self, outputGrid, remapMatrix, sourceAddress, destAddress, inputGrid=None, sourceFrac-

Methods inherited from [ScripRegridder](#):

getDestinationFraction(self)

getInputGrid(self)

getOutputGrid(self)

getSourceFraction(self)

class ***BilinearRegridder***([ScripRegridder](#))

Methods defined here:

__init__(self, outputGrid, remapMatrix, sourceAddress, destAddress, inputGrid=None, sourceFrac=1.0)
regrid(self, input)

Methods inherited from ScripRegridder:

__call__(self, input)
getDestinationFraction(self)
getInputGrid(self)
getOutputGrid(self)
getSourceFraction(self)

class **ConservativeRegridder**(ScripRegridder)

First-order conservative regrid. By default, the normalize option = None is not specified. If 'normal' is specified, it should be a one-dimensional array of the same size as the output grid size, with values:

1.0 for normalize="fracarea",
grid_frac for normalize="destarea", or
grid_frac*grid_area for normalize="none".
sourceArea is the area of the source grid cells
destArea is the area of the destination grid cells

Methods defined here:

__init__(self, outputGrid, remapMatrix, sourceAddress, destAddress, inputGrid=None, sourceFrac=1.0, normal=None, sourceArea=None, destArea=None)

getDestinationArea(self)
getSourceArea(self)
regrid(self, input)

Methods inherited from ScripRegridder:

__call__(self, input)
getDestinationFraction(self)
getInputGrid(self)
getOutputGrid(self)
getSourceFraction(self)

class ***DistwgtRegridder***(ScripRegridder)

Methods defined here:

__init__(self, outputGrid, remapMatrix, sourceAddress, destAddress, inputGrid=None, sourceFrac=1.0)

regrid(self, input)

Methods inherited from ScripRegridder:

__call__(self, input)

getDestinationFraction(self)

getInputGrid(self)

getOutputGrid(self)

getSourceFraction(self)

class ***ScripRegridder***

Methods defined here:

__call__(self, input)

__init__(self, outputGrid, remapMatrix, sourceAddress, destAddress, inputGrid=None, sourceFrac=1.0)

getDestinationFraction(self)

getInputGrid(self)

getOutputGrid(self)

getSourceFraction(self)

Functions

readRegridder(fileobj, mapMethod=None, checkGrid=1)

Read a regridder from an open fileobj.

mapMethod is one of "conservative", "bilinear", "bicubic", or "distance". If 'checkGrid' is 1 (default), the grid cells are checked for consistency and 'repaired' if necessary.